



Aircraft
Carriers



Expeditionary
Warfare



Mine &
Undersea
Warfare



Submarines



Surface
Strike



Theater
Surface
Combatants

Keeping America's Navy #1
in the World

Nav yEnterprise Maintenance

Automati edSyste m

Overview

Why NEMAIS?

- **Operational requirements**
- **Business drivers**
 - ➔ **Lower budgets**
 - ▮ **Mandated savings**
 - ▮ **Increased workload**
 - ▮ **Fewer ships and personnel**
 - ▮ **Revolution of business affairs**

***We have the same operational commitment to perform -
with less ships, people and money.***





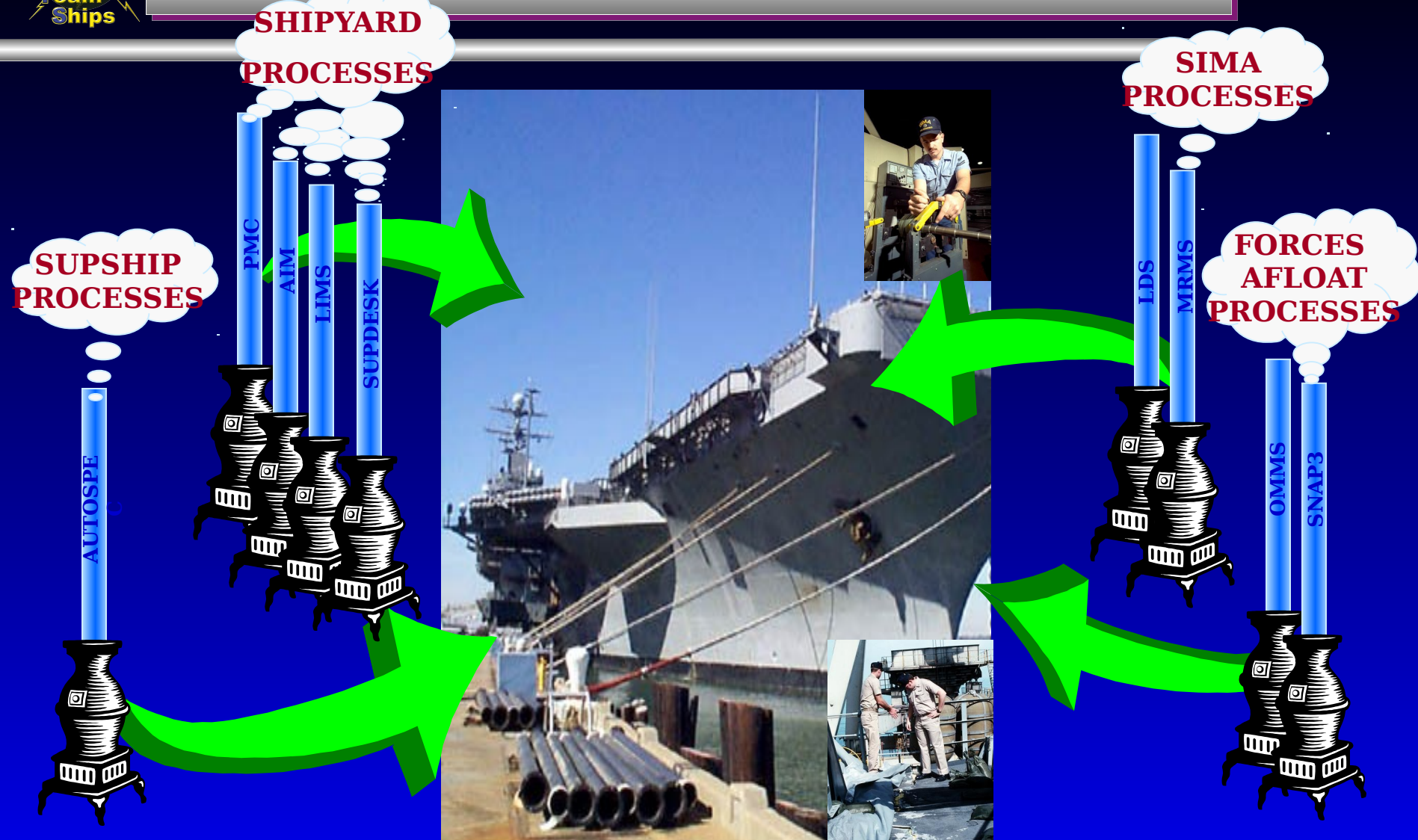
Riding the *e-Business* Wave

Innovation, speed, and efficiency are the hallmarks of *e-Businesses*.

How will the Navy catch the wave?



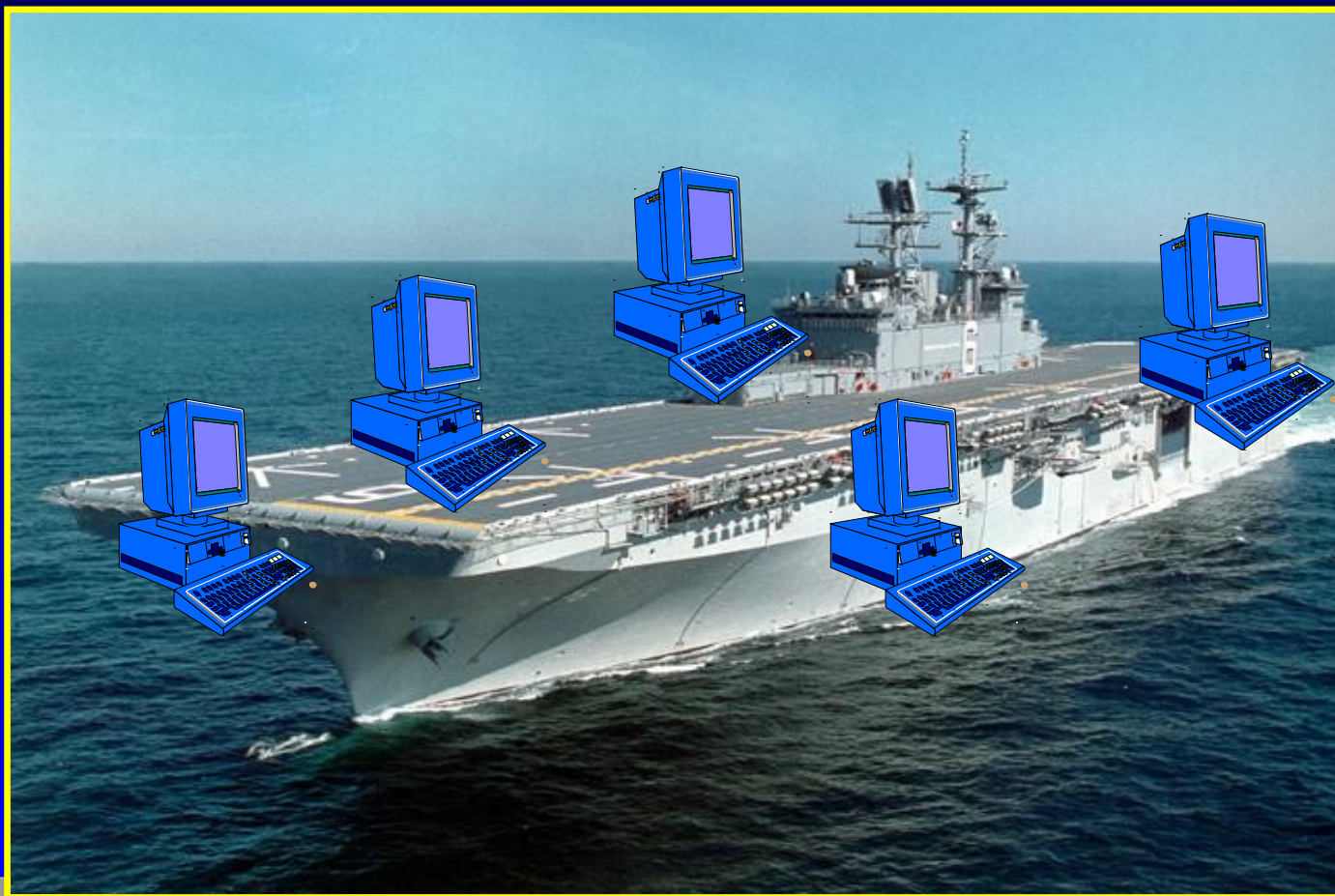
What is the Problem?



Functionally independent, redundant, and inefficient processes lose focus on the customer's product, and

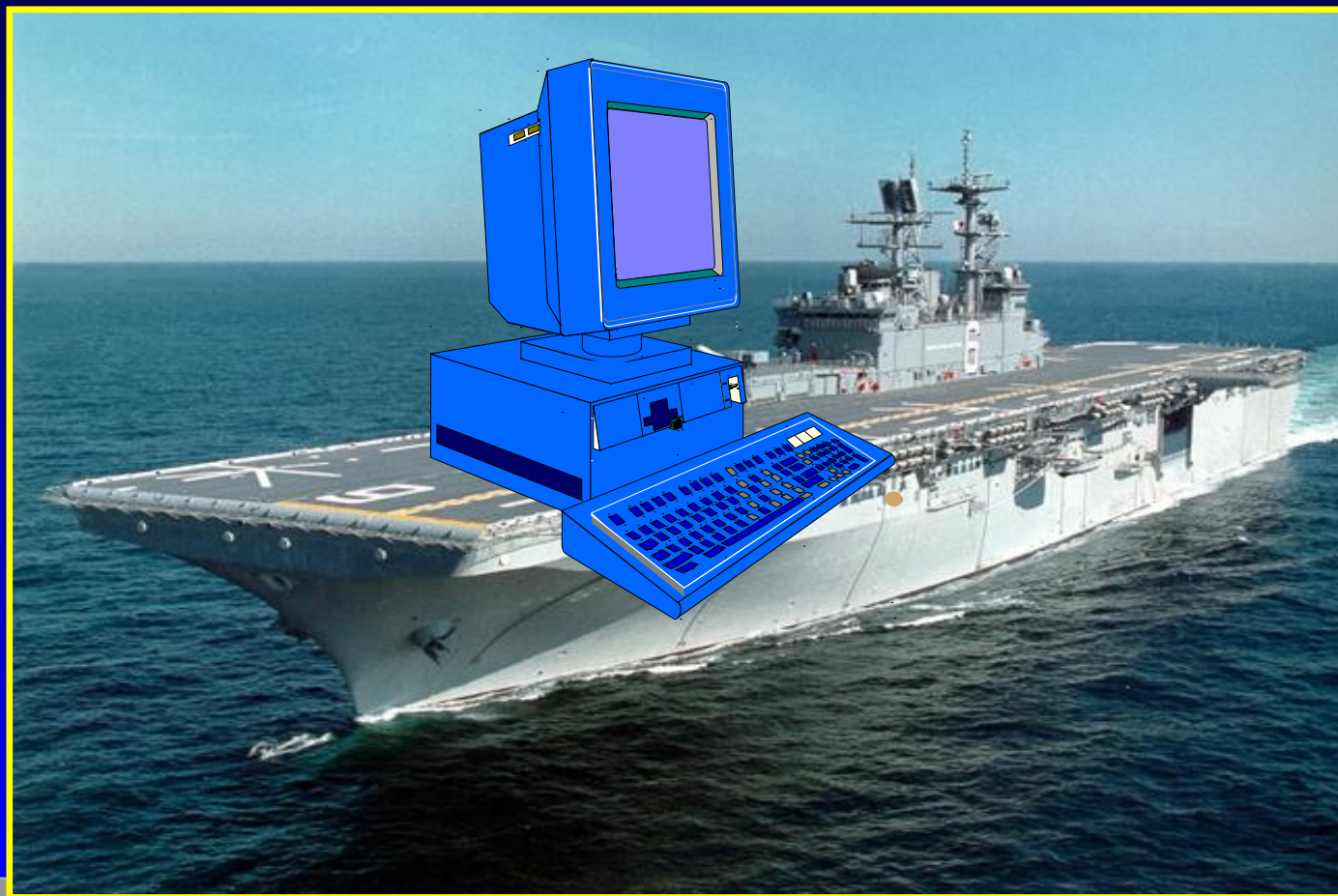
Shipboard Today

Legacy systems on separate LANs and workstations



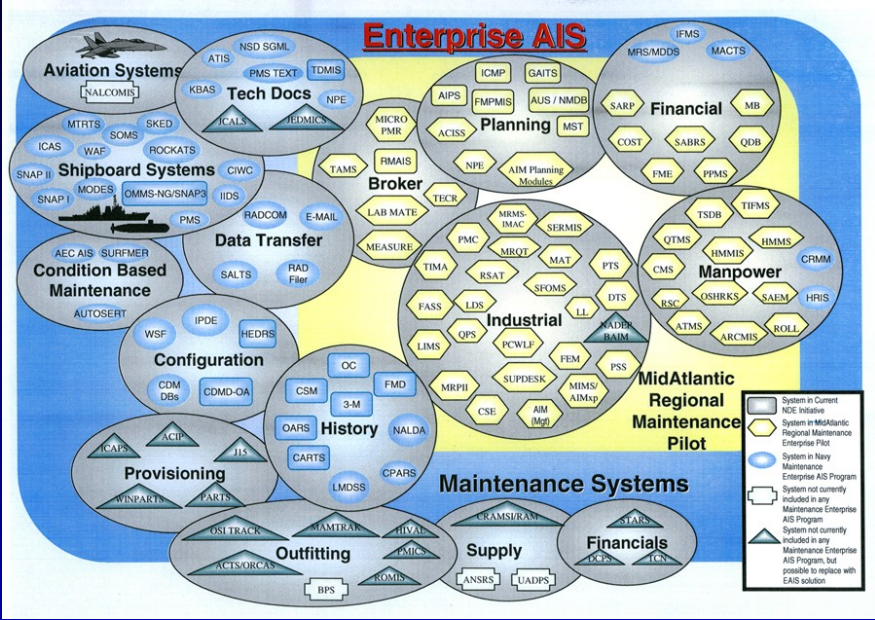
Shipboard With ERP

**ERP integrates all work and all data
in “one system, one computer”**

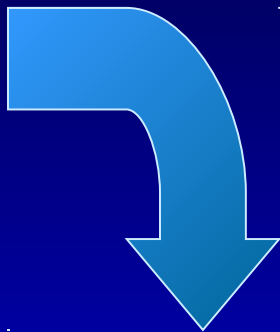




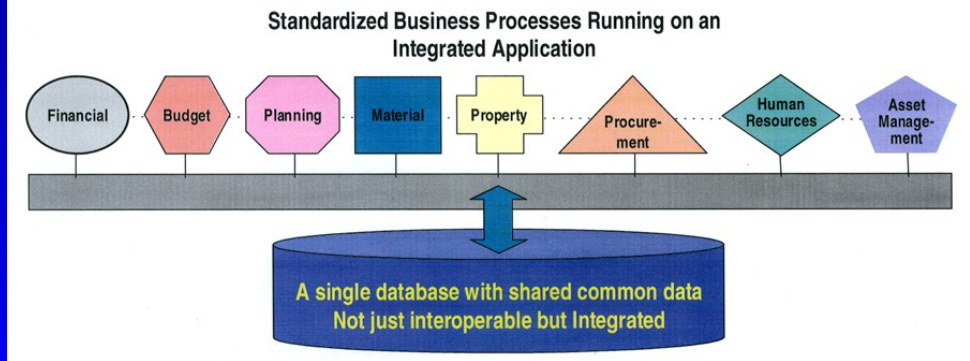
Today versus ERP



**What
We Have
Today**



**What
ERP
Provides**





NEMAIS Mission

NEMAIS is a joint NAVSEA and Fleet initiative that will...

- **Improve combat readiness**
- **Reduce lifecycle cost**
- **Improve sailor quality of service**
 - **Providing timely and rapid access to information**
 - ▮ **Supporting total asset visibility**
 - ▮ **Enhancing planning and scheduling processes**
 - ▮ **Reducing total cost of ownership**
 - ▮ **Minimizing and simplifying data collection**
 - ▮ **Improving maintenance execution**



Vision



Work
Request

NEMAIS



Vision



Status

Work Request
Approved Work Request

2K Work Request

Maintenance

Managers



Broker



Planner



Scheduler

Work to be Planned

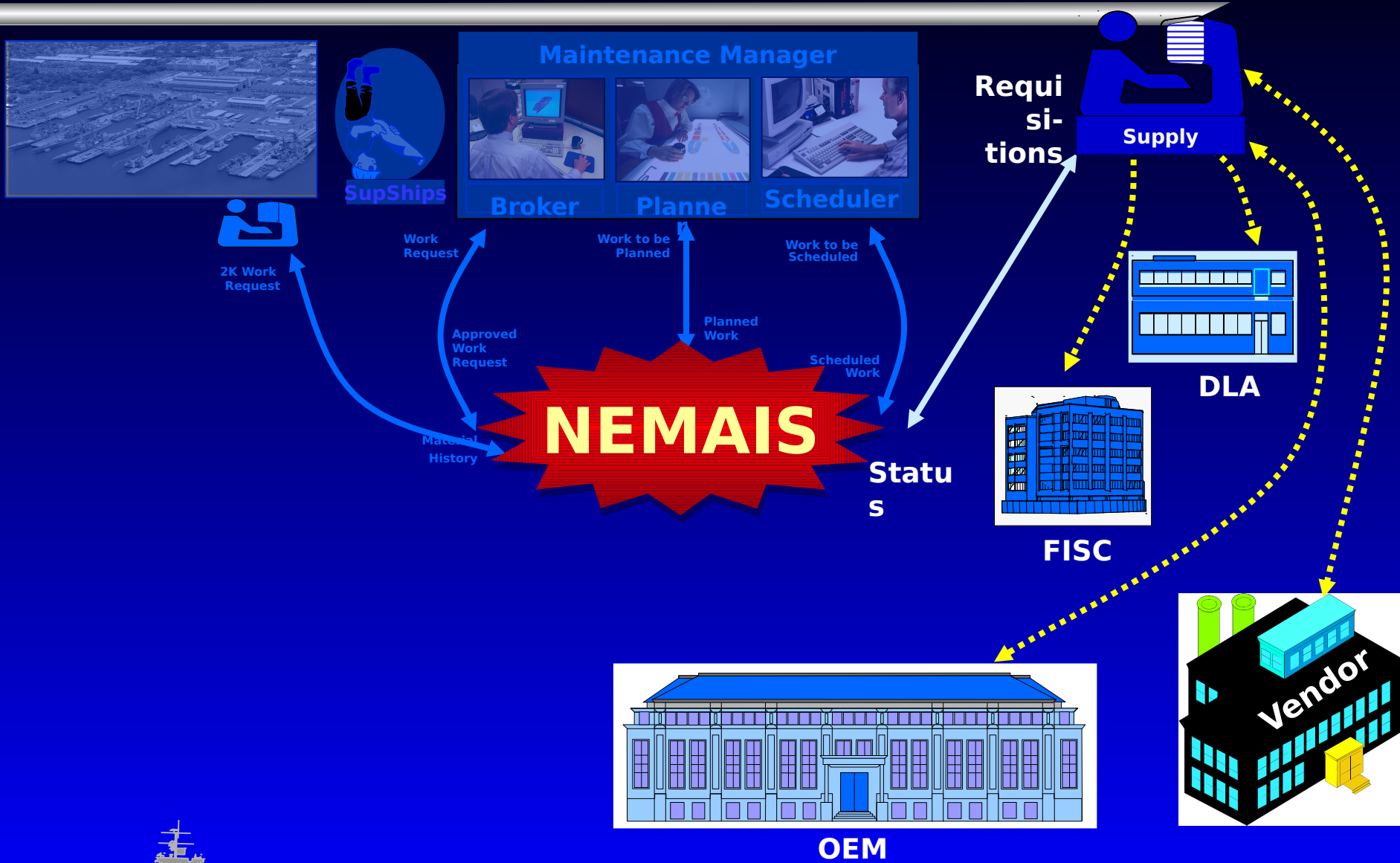
Planned Work

Work to be Scheduled

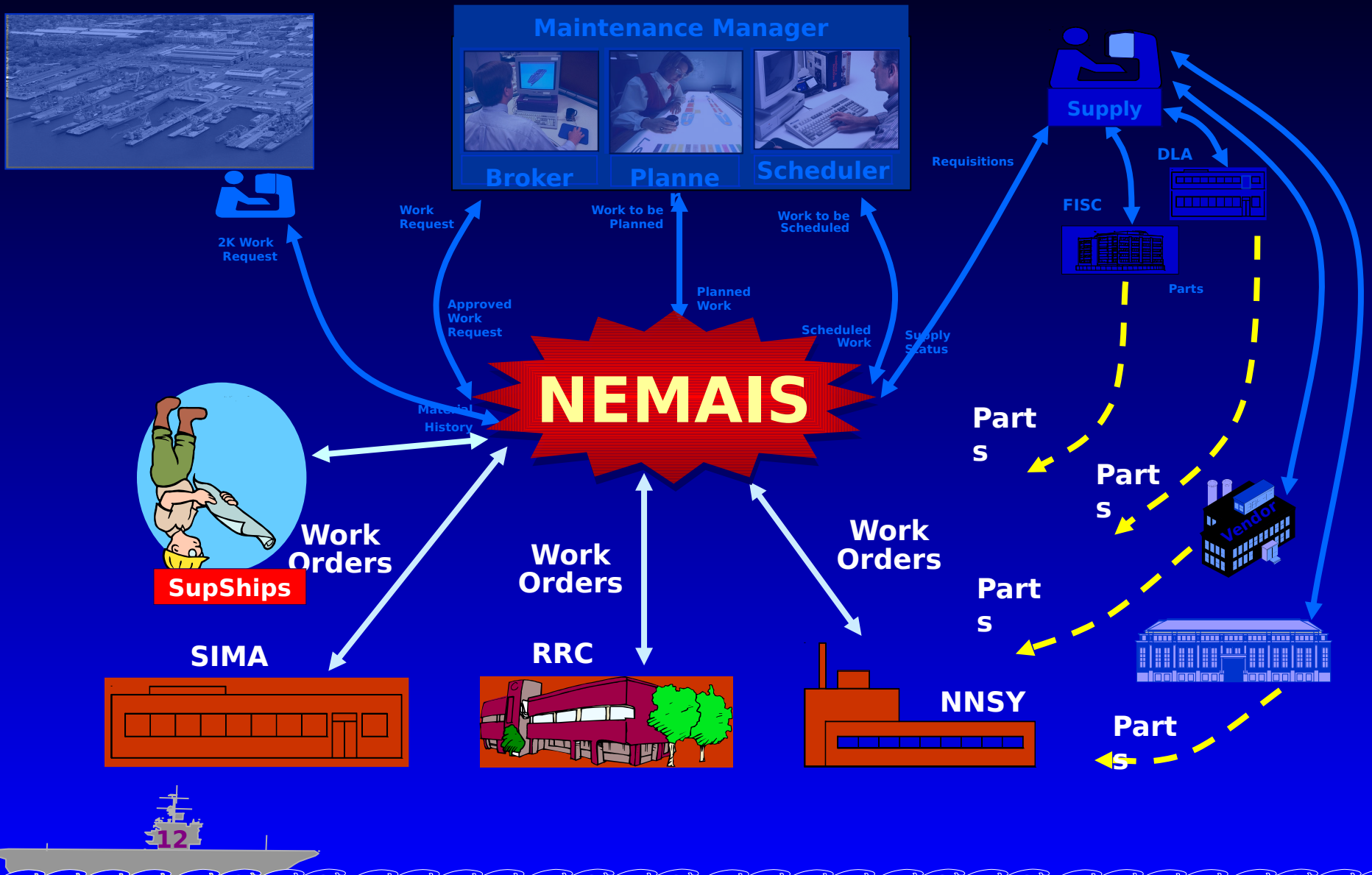
Scheduled Work

NEMAIS

Vision



Vision



Vision



2K Work Request

Maintenance Manager

Broker

Planner

Scheduler

Work Request

Work to be Planned

Work to be Scheduled

Approved Work Request

Planned Work

Scheduled Work

Material History

NEMAIS

Job Status

Resources

Requisitions

DLA

FISC

Parts

Parts

Work Order

RRC

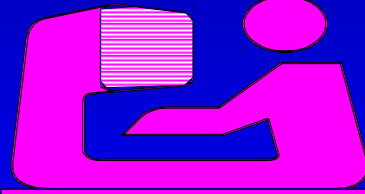
SupShips

SIMA

Demands

Vendor

OCN



HR



Vision



2K Work Request

Maintenance Manager



Broker

Planner

Scheduler

Work Request

Work to be Planned

Work to be Scheduled

NEMAIS

Material History

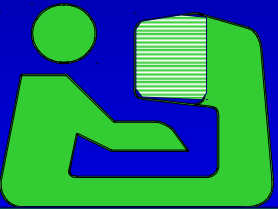
Approved Work Request

Planned Work

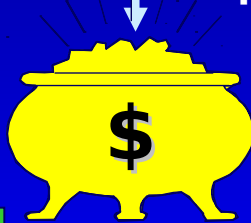
Scheduled Work

Available Funds

Planned and Actual Expenditures



Comptroller



Supply

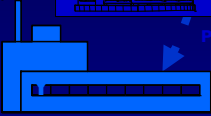
Requisitions

DLA

FISC

Parts

Parts



Work Order

RRC



SupShips



Vendor



CCM



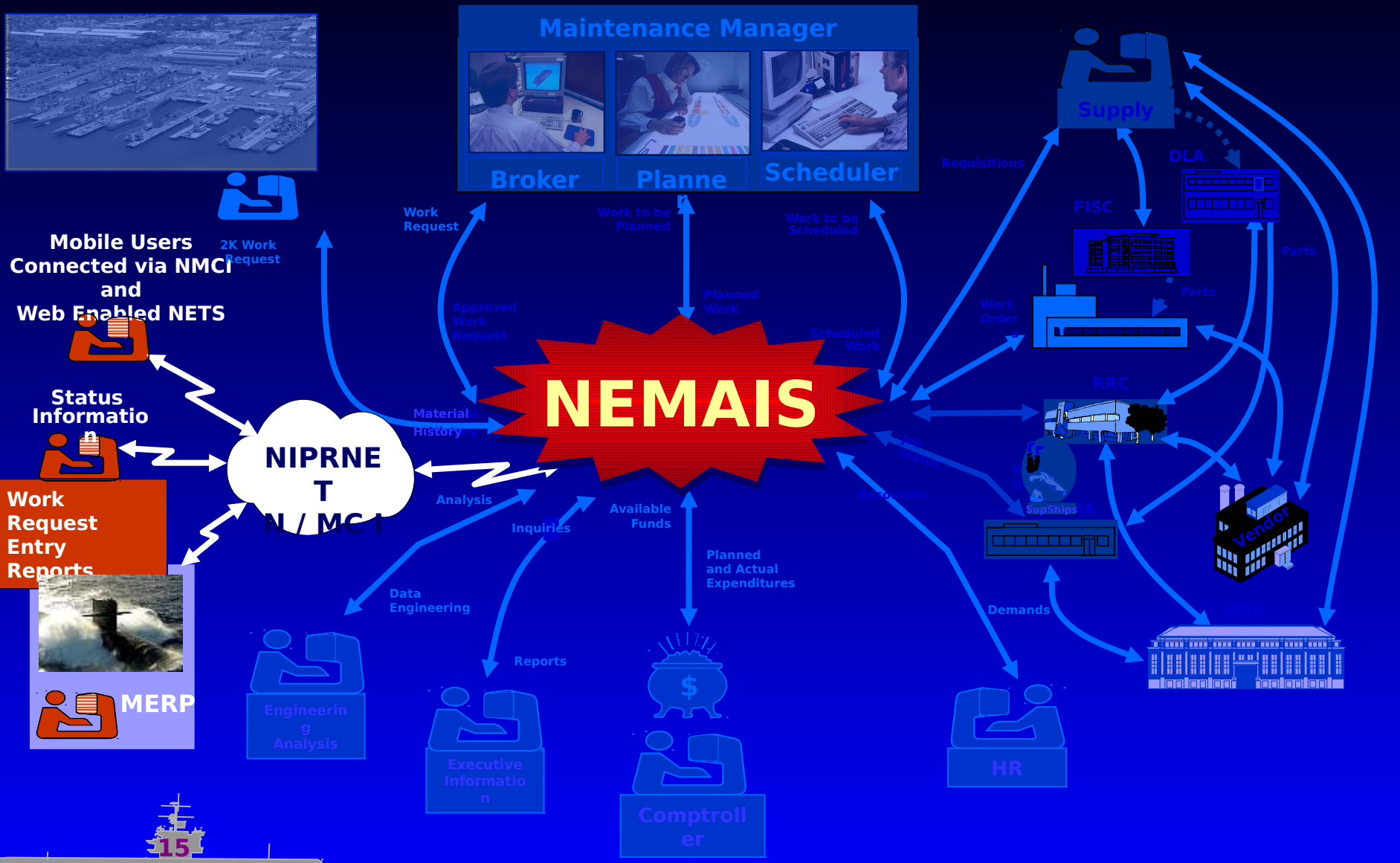
Demands



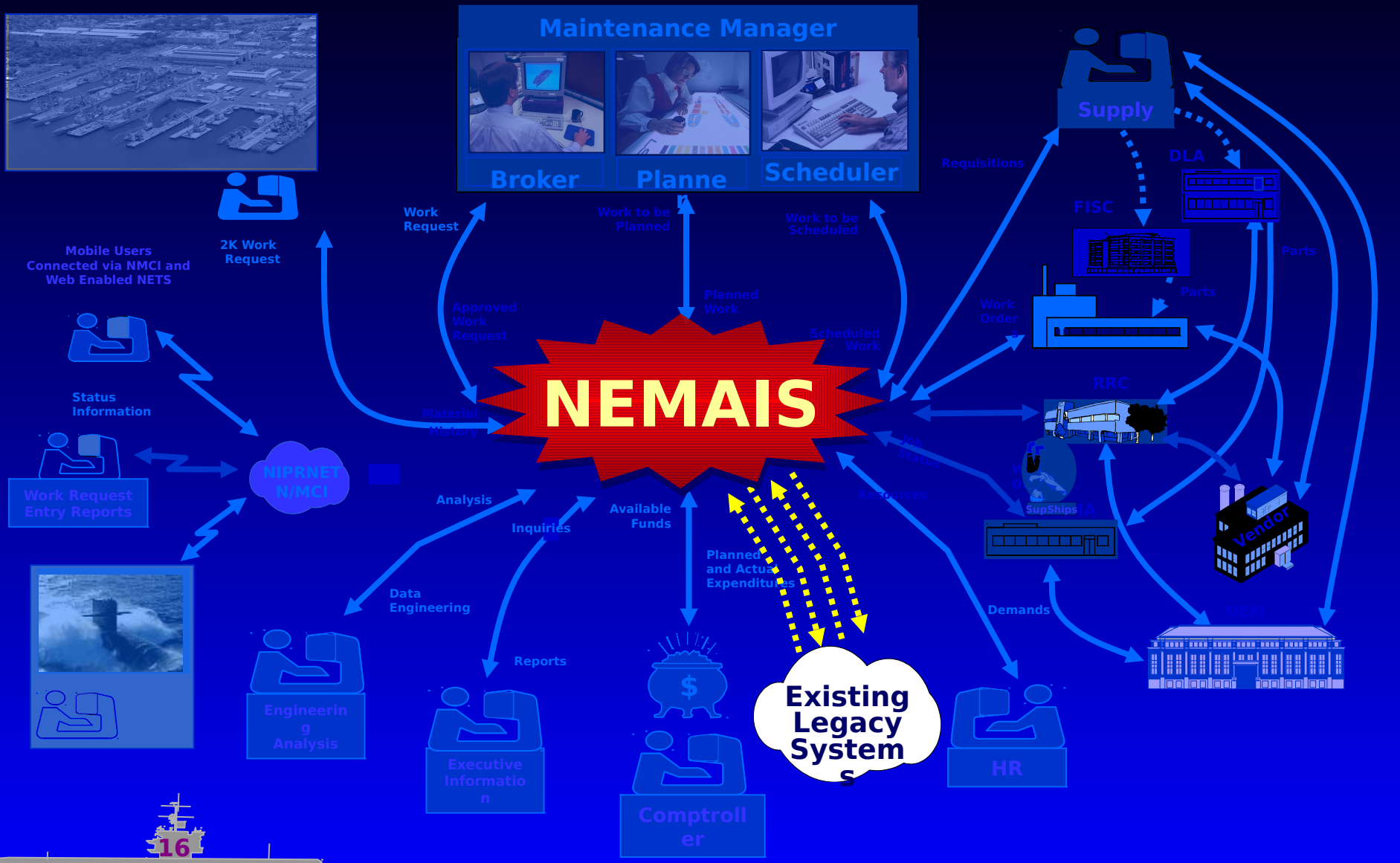
HR



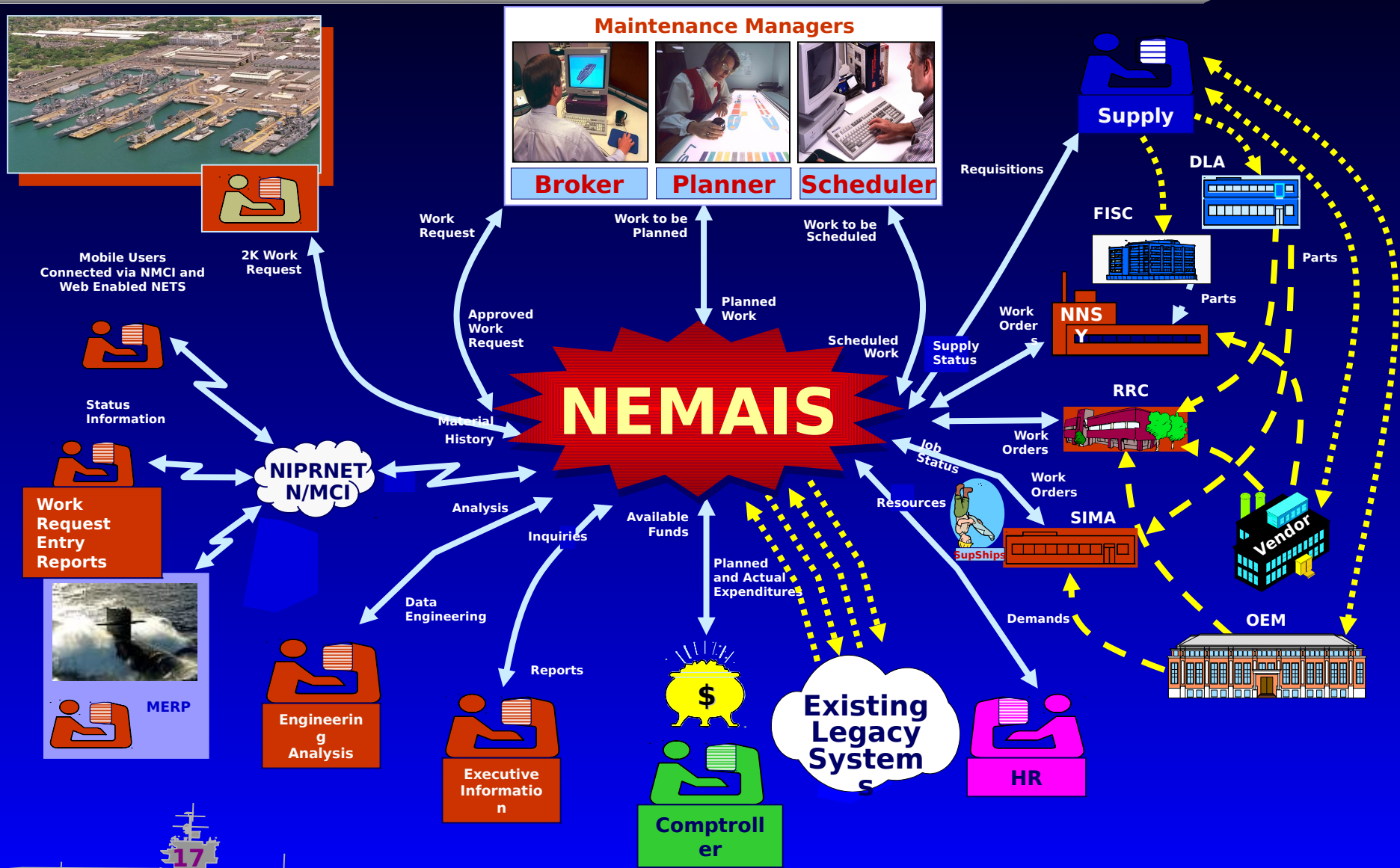
Vision



Vision



Vision



Summary of the Vision

**A Single Request
Triggers a Global Network
of Supporting Resources**

**Data Entered Once
Validated and Shared
by ALL Processes in the
NDE**

NEMAIS

**Access to Information
from ...Anywhere!
... Anytime!
... Real Time!**

**Systems that are
... Secure ... Reliable
... Scalable ... Intuitive**

**Lower Total Cost through
Operational Efficiencies
& Process Improvements**



What Happens When You Implement ERP?

- **Processes Take Center Stage**
- **Organizational Boundaries Dissolve**
- **Job Responsibilities Broaden**
- **Authority Moves to the Front Lines**





Total Scope

- **28,000 Users in Intermediate and Depot maintenance activities**
- **10,500 work centers afloat**
- **Over 99 legacy software systems ultimately replaced or incorporated into solution**
- **Phasing:**
 - ➔ **Phase A: Mid Atlantic Regional Maintenance - 12-18 months**
 - ▮ **Phase B: Norfolk Naval Shipyard - 18 months**
 - ▮ **Phase C: Legacy Data conversion - concurrent with Phase B**
 - ▮ **Phase D: Remaining maintenance regions (7)**
 - ▮ **Phase E: Supervisor of Shipbuilding sites**
 - ▮ **Phase F: Afloat Enterprise Resource Planning (300 Navy Ships)**





ERP Partners

**Naval Sea Systems
Command
(NAVSEA)**



The Fleet — 300+ ships



Navy Enterprise Team Ships





NEMAIS Partners - NETS Team

NAVY



VENDOR

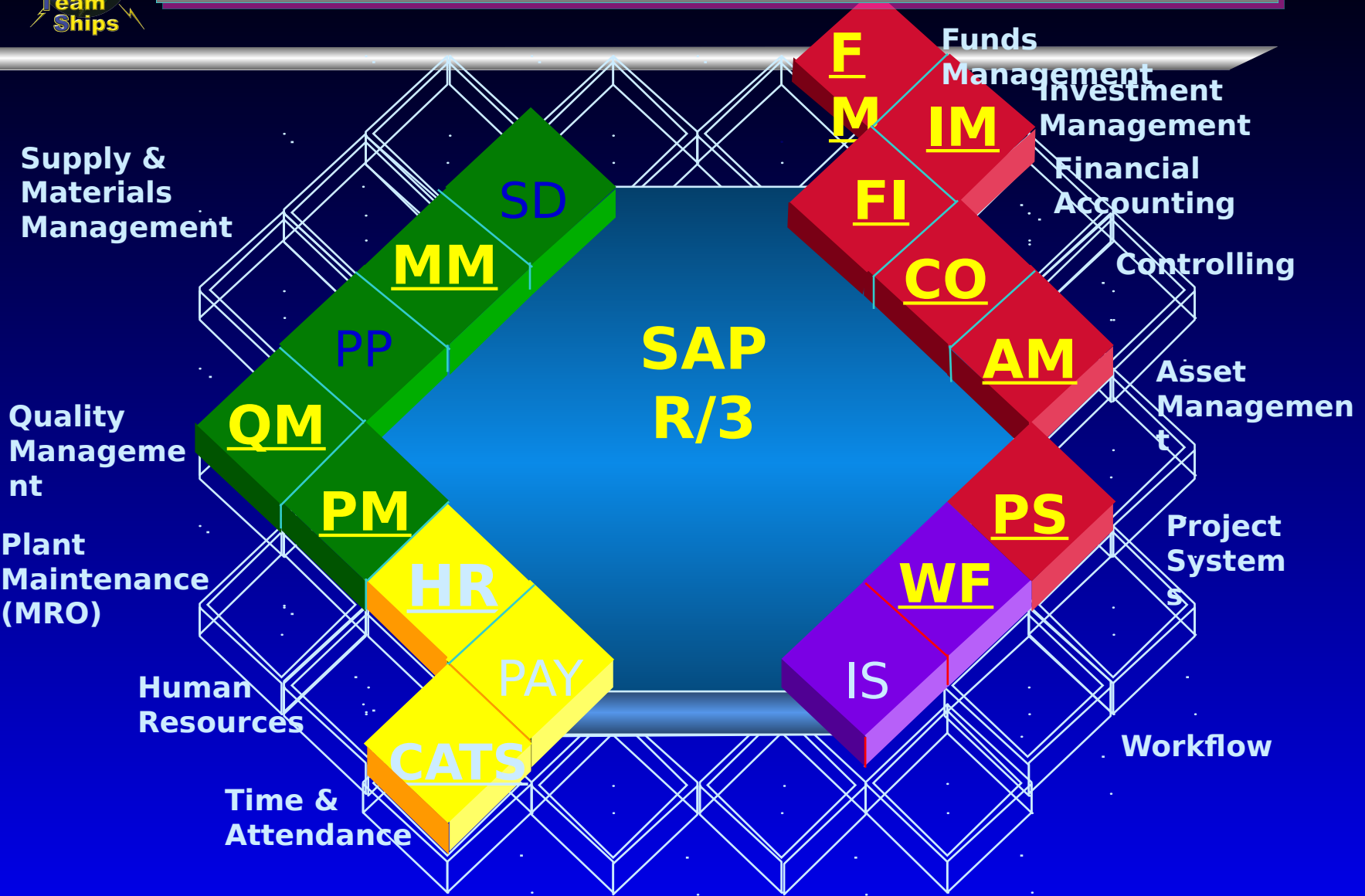


Navy
Enterprise
Team
Ships





The SAP Solution





The Integrated ERP Solution

**Document
Management**

Docu-
mentum

12 Rhythm Optima
Scheduler

Abaco

RF Barcode

**Hazardous
Material**

PlantWare

MQ Series
Integrator

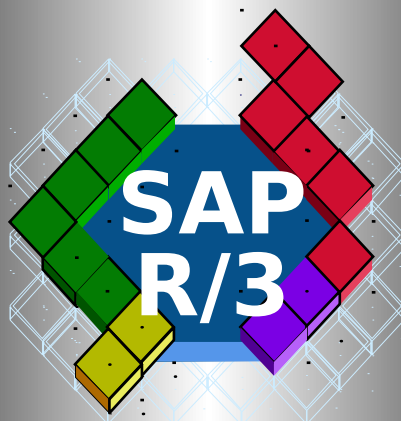
**Legacy
System
Interface**

**Activity
Based
Costing**

OROS 99

JetForms

Forms



Oracle

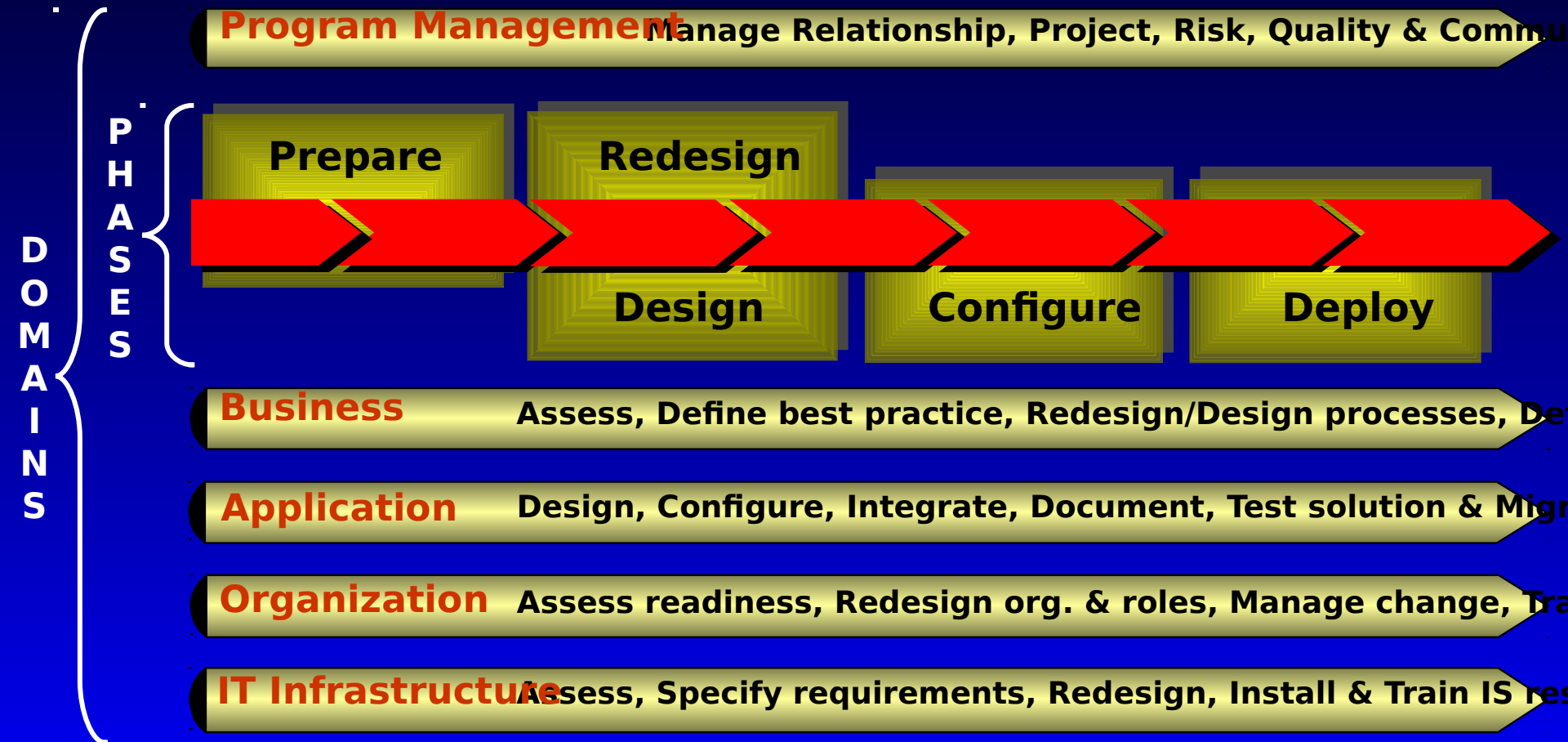
↑ ↑ ↑ **Security** ↑ ↑ ↑





The Integration of *MethodBLUE*

MethodBLUE uses the concepts of Domains to categorize work products created during the Phases of a project



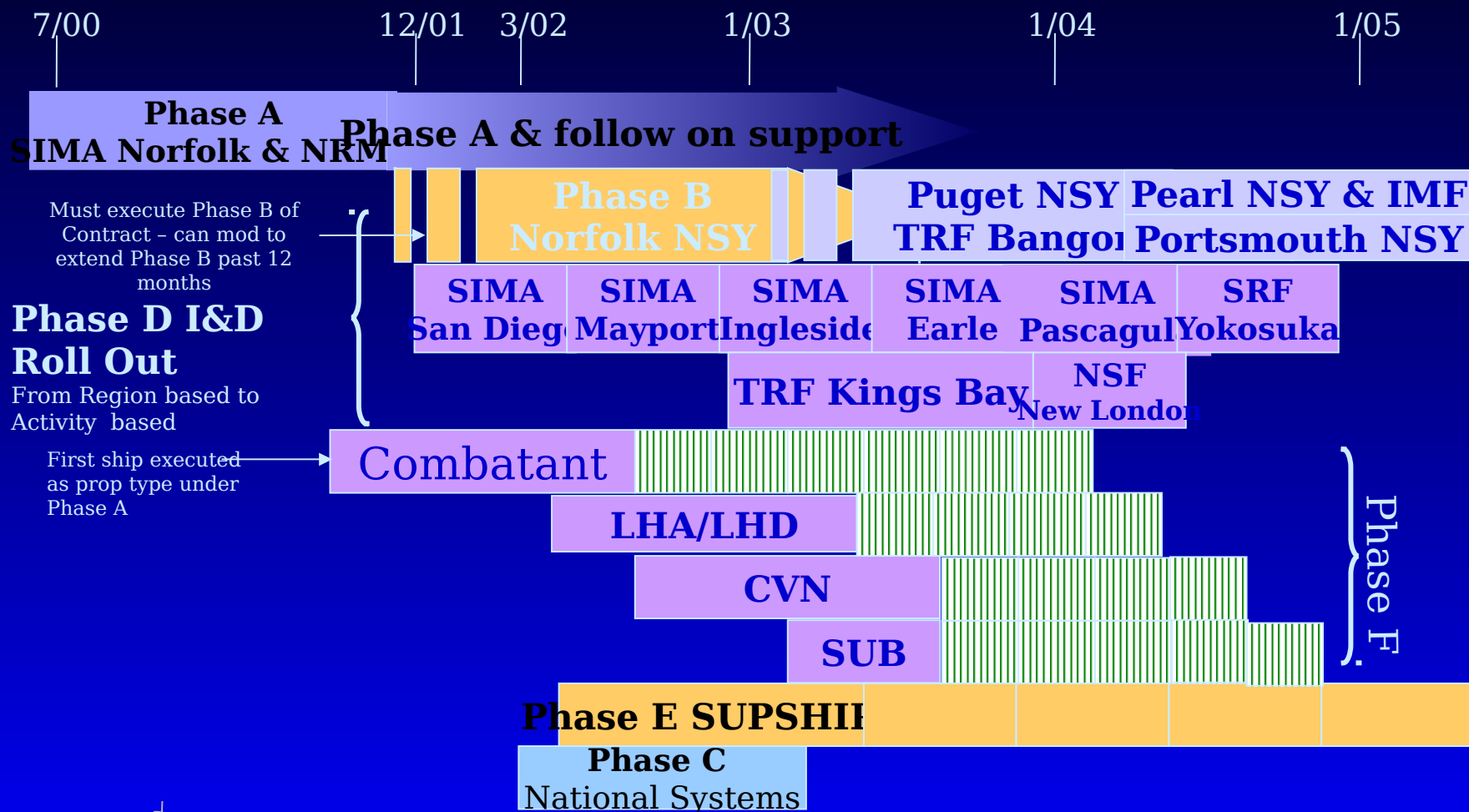
... *Structured Methodology Lowers Risk*

- Prepare - **Jul 00 - Sep 00**
- Redesign/Design - **Sep 00 - Feb 15**
- Configure - **Feb 15 - Oct 01**
- Deploy (SIMA Norfolk) - **Oct 01 - Dec 01**





Notional Deployment Schedule

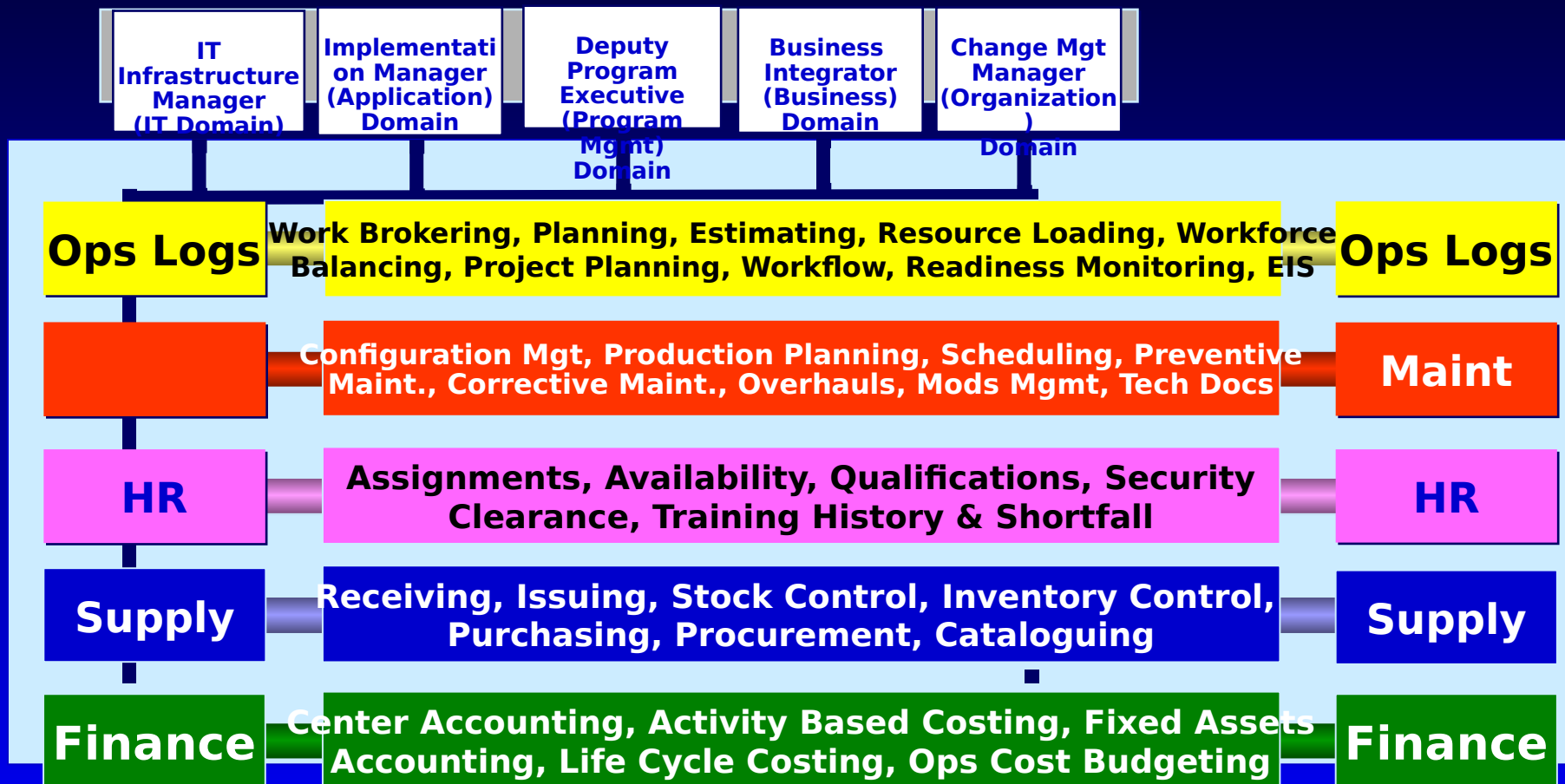




Implementation Teams



MethodBLUE Domains & Integrated Product Teams





Approach - IPTs

MethodBLUE Domains & Integrated Product Teams

IT

APP

PM

BUS

ORG

Ops Logs

Work Brokering, Planning, Estimating, Resource Loading, Workforce Balancing, Project Planning, Workflow, Readiness Monitoring, Etc.

Bob Lyons
Conrad Hedderich

Configuration Mgt, Production Planning, Scheduling, Preventive Maint., Corrective Maint., Overhauls, Mods Mgmt, Tech Docs

Deborah Henry
Wayne Davis

HR

Assignments, Availability, Qualifications, Security Clearance, Training History & Shortfall

Brett Lee
Susan Bone

Supply

Receiving, Issuing, Stock Control, Inventory Control, Purchasing, Procurement, Cataloguing

Sheryl Wright
Bill Wenslaff

Finance

Center Accounting, Activity Based Costing, Fixed Assets Accounting, Life Cycle Costing, Ops Cost Budgeting

Dale Daulton
Mike Rader





Pillars of the Project

- **Must be operational in SIMA Norfolk by December 01**
- **Must be extensible to O, I, and D Level activities in all regions**
- **Leverage Best Practices from industry and government**
- **No core code software changes**





The Other Navy ERP Initiatives

- **AvSCM/BPR ERP Pilot (NAVSUP/NAVAIR)**
 - ➔ **Supply Chain Management**
 - E2C Aircraft
 - LM2500 Engine
- **Program Management ERP Pilot (NAVAIR)**
 - ➔ **Weapon Systems Acquisition Process**
 - E2C Aircraft
- **WCFM ERP Pilot (SPAWAR)**
 - ▮ **Warfare Center Financial Management**



Reference Websites

- **NEMAIS Website**
 - ➔ **<http://nemais.navsea.navy.mil>**
- **NETS Project Office (remote users)**
 - ▮ **<http://192.156.91.252>**
 - ▮ **UserName: NETS; Password: NEMAIS (case sensitive)**



Aircraft
Carriers



Expeditionary
Warfare



Mine &
Undersea
Warfare



Submarines



Surface
Strike



Theater
Surface
Combatants

Keeping America's Navy #1
in the World

Questions?



Back-up Slides

 **Palm Tree**

 **ERP Vision & Scope**



Phase A

Fully understand boundaries (not all of organization)

NAVSUP
Supply Chain
ERP Pilot

"O" Level Organizations

FTSC

RSG

FISC

NNS
Y

SIMA

Repair
SUPSHIP

RRC
NRMD

RRC

RRC

- Identify/Eval Maint/Modern Candidate
- Broker Work
- Identify Priorities
- Assign Completion Dates
- Manage:
 - Config/Logistics
 - Resources
- Analyze/Eval Work

- Plan Work Candidate
- Management:
 - Work Execution
 - Prioritize Critical Path
- Manage:
 - Maintenance
 - Material
 - Config/Logistics
 - Resources
- Analyze/Eval Work

(MARCC, AIMD Oceana)





Successful Tactics for ERP Implementation

- **Passionate, Committed Leadership**
- **Position ERP as a Strategic Business Initiative**
- **Reengineer Consciously with ERP**
- **Clearly Defined and Empowered Process Owners**
- **Rapid Decision-Making and Implementation**
- **Sufficient Investment in Implementation and Training**
- **Don't Stint on Change Management!**





The Implementation Timeline

Phase A: O, I & Common D Level

Phase B: Unique D Level

Phase D: O, I & D Level Regional Deployment

July 00

We Are Here

7/00 - 12-01

Mar 02

Jun 03

Phase 0

Phase A

Phase B

Phase D - Regional Roll-outs

As-is Process Mapping

Contract Award

SIMA Norfolk

Evaluation: Lessons Learned Go/No-Go Decision

Norfolk Naval Shipyard

Evaluation: Lessons Learned Go/No-Go Decision

Optional Roll Out I & Common D

Phase C - National Systems

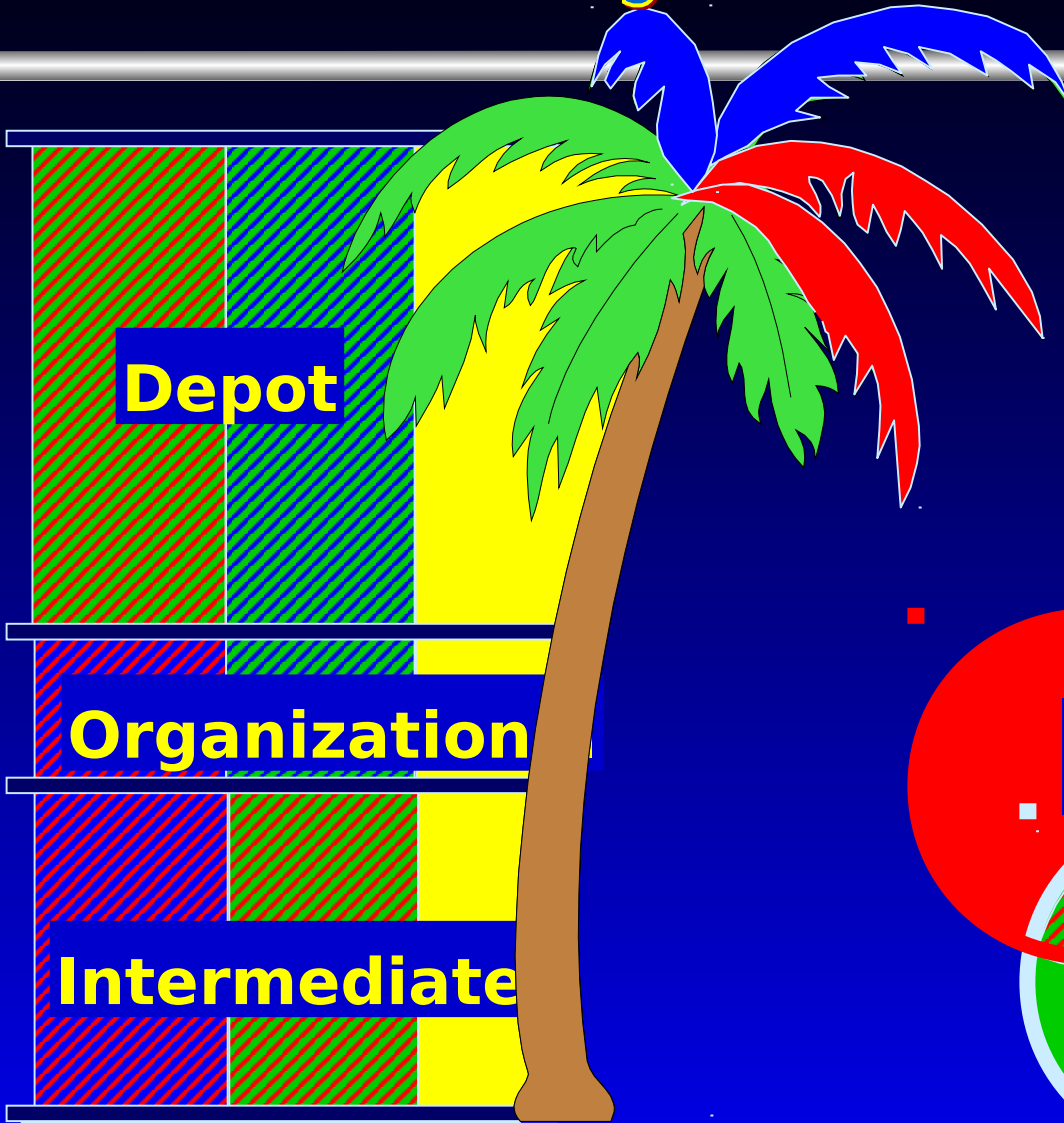
Phase E - SUPSHIP Contracting

Phase F - Roll Out to Ships

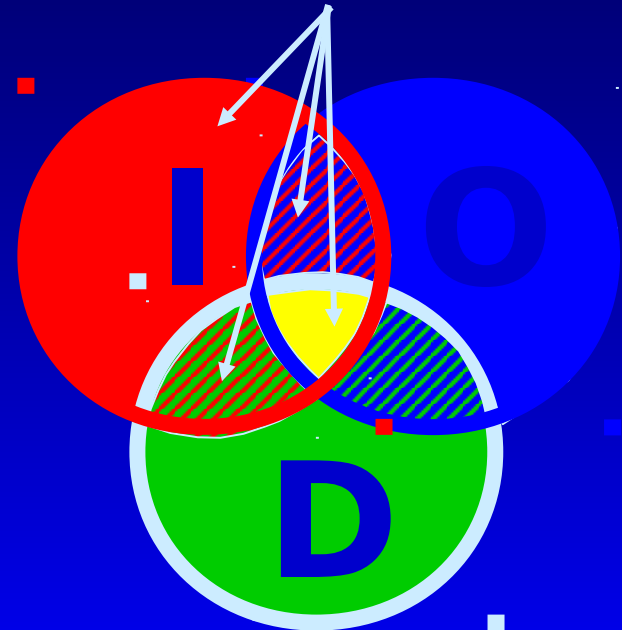
Software Maintained And Validated



Phase "A" Configuration



In Phase "A" we will Configure the Requirements inside the "I" Circle, i.e. Solid Red and Yellow, Cross Hatch areas Red-Blue, and Red-Green





CNO
SYSCOMs - FLEET - USMC

FLEET
Task Forces
Battle Groups

Acquisition

Ops Log

Operations

NAVSEA - NAVAIR
USMC - NAVFAC

Logs Plans & Schedules

Ops Plans & Schedules

WO

HR Reqn

JO

Sup Reqn

TR

Facilities

Human Resources

Maintenance

Supply

Transportation

NAVFAC

OPM
BUPERS
USMC

FLEET
NAVSEA
NAVAIR
USMC
NAVFAC

NAVSUP
DLA
GSA
Vendors

MSC
MAC
Trans...

Budget Auth./OPTAR

Finance/
Budget

NAVCOMP
DFAS

Disposal

